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CENTRAL INTELLIGENCE AGENCY  
INFORMATION REPORT 25X1ACOUNTRY Poland  
SUBJECT Huta Poloj Steel PlantPLACE ACQUIRED  
(BY SOURCE)DATE ACQUIRED  
(BY SOURCE)

DATE (OF INFO.) 1939 and 1953

DAS NO.	
OCI NO.	

DATE DISTR. 19 Apr 1954

25X1X

1. The Huta Poloj steel plant is located in the town of Nowy Bytom about 10 miles north east of Katowice. It is entirely a company town with the steel plant the only industry.

The plant consists of:

- Coke Ovens
- Chemical Plant
- Six Blast Furnaces - Capacity 400/500 MTs/Day each.
- Seven Open Hearth Furnaces - Largest 100 Ts/Day, Smallest 40Ts/Day.
- Blooming Mill 32" Diam.
- Rail Mill
- Reversible Mill - (Structural steel, 30 cm. beam is largest which can be rolled)
- Plate mill - Maximum width two ms. Maximum thickness 25 mm.
- Sheet Mill - 13 mills with capacity of 3000 MTs per month.
- Forge - Five hammers: 10Ts, 12Ts, 5Ts and smaller
- Structural Shop for fabricating building frames.
- Machine Shop - For internal repairs and manufacturing wheels and axles.
- Senzimir Mill for manufacture of sheet for tinning.
- 22,000 KW power plant.

2. **25X1X** the coke ovens have been entirely rebuilt since World War II and the machine shop has been re-equipped with new modern machine tools. The plant was not damaged during the war.

3. The total output of the plant was 250,000 tons of finished steel products per year.

The major output of steel was rails and accessories. Most of the wheels and axles manufactured were shipped to USSR before World War II.

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25X1A

4. There was a considerable production of chemicals from coke and a large production of phosphate fertilizers. These fertilizers were made largely from open hearth slags. About 30 percent of [redacted] ore was from the company's own mines. It contained from two to four percent phosphorus, not high enough for Thomas furnace use. The balance of [redacted] ore formerly came from the U. S. and later from Morocco and Sweden. The process for utilizing the phosphorus from the slag of these ores to make fertilizer was developed at the plant and proved very successful. 25X1X 25X1X
5. The coal used was obtained from two neighboring mines and was shipped by aerial tram to the plant at the rate of 2000 tons per day. This coal had inferior coking qualities and a great deal of difficulty was found in using it at first. Later a patented method was developed at the plant and excellent coke was ultimately produced.
6. About 7000 men were employed plus some 380 engineers. They were housed in company houses adjoining the plant.
7. a. The Bessemer Mill erected at Huta Poloj was the first of several later erected in France and the U.S. The one at Huta Poloj after a difficult year of trial and error ultimately was very successful and steadily produced an average of 30 MT of tin sheet, varying slightly with thickness.
- b. There was only one stand erected. Its major differences with previous rolling methods was that the rolls were only from one to two inches in diameter. They were driven by larger rolls or series of rolls which were enclosed in housings and could transmit a high pressure to the small rolls. The bite they could take was much greater than with common rolls and there was a tension applied to the billet being rolled so that it was in tension as well as compression while passing through the rolls. The method used at first was to pass the material in a continuous band for 13 to 15 passes, the extension of length being taken care of by passing the band being rolled over pulleys, one of which was mounted on a car which moved on a track as the length increased. A later improvement involved winding the material on a reel or binder. The width of the finished sheet was governed by USSR specifications, 711 mm. In the U.S. it is now two meters.

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ENCLOSURE (A): Diagram of Huta Poloj Steel Plant

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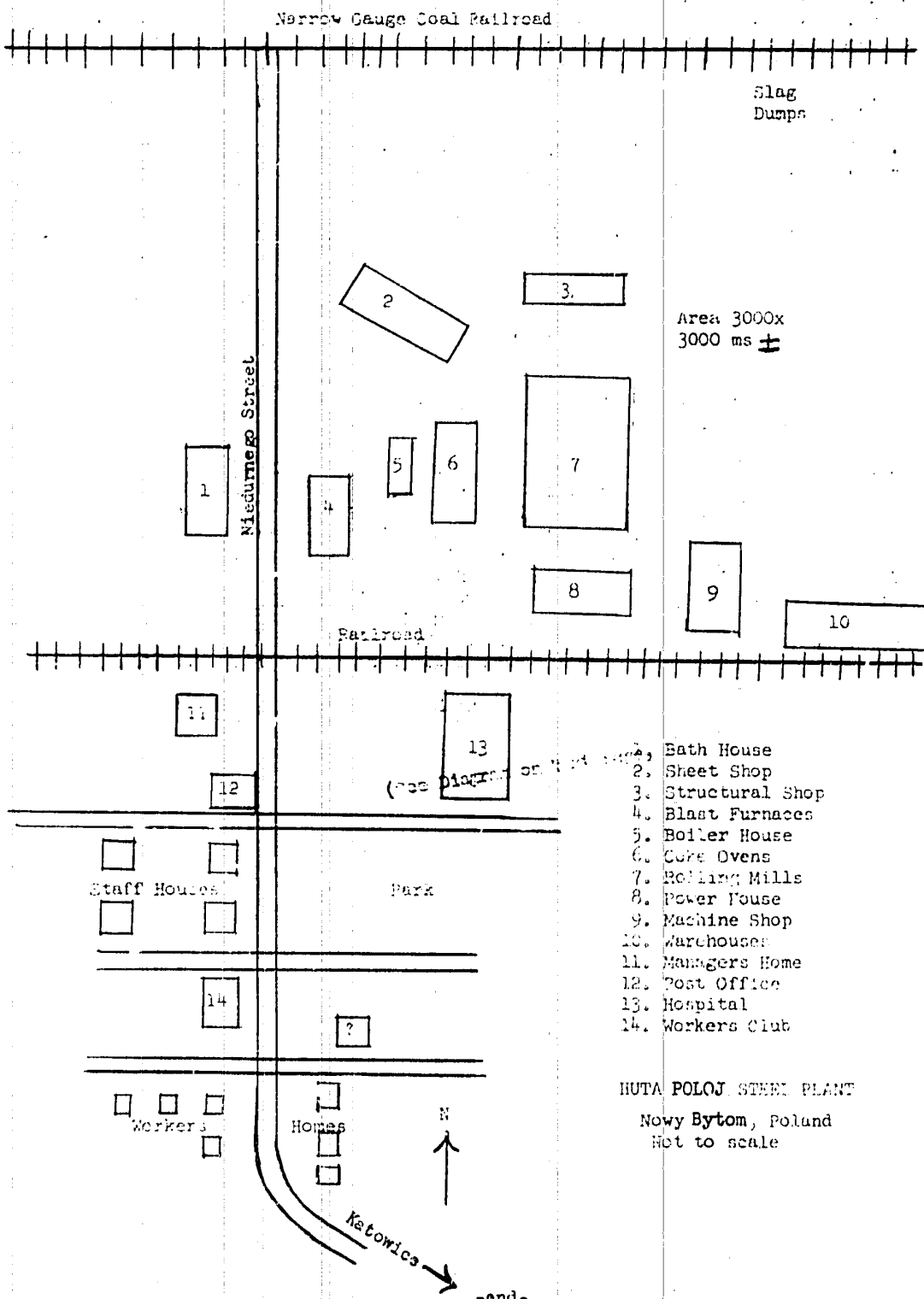
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ENCLOSURE (A)

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25X1A

DIAGRAM OF HUTA POLOJ STEEL PLANT



- 1. Bath House
- 2. Sheet Shop
- 3. Structural Shop
- 4. Blast Furnaces
- 5. Boiler House
- 6. Coke Ovens
- 7. Rolling Mills
- 8. Power House
- 9. Machine Shop
- 10. Warehouses
- 11. Managers Home
- 12. Post Office
- 13. Hospital
- 14. Workers Club

HUTA POLOJ STEEL PLANT  
Nowy Bytom, Poland  
Not to scale

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